

Application Serial N . 09/478,849
Amendment Dated 15 May 2004
Response to Office Action of 18 November 2003

Docket No. CIC-037-US

In the Claims:

Please rewrite claims 32, 33, 66, 70, 71 and 74 as follows:

32. (thrice amended): An optical system, comprising:

- a. a modulated scanning beam of light for forming an intermediate image;
- b. a light redistributing means positioned proximate to said intermediate image for expanding a cone of light incident on said light redistributing means into a larger cone of exodus, wherein said light redistributing means comprises a light redistributing screen with a scanning modulated beam of light, wherein said light redistributing screen redistributes light from said beam of light of said intermediate image; and
- c. a re-imaging means for re-imaging said intermediate image so as to form a virtual image, wherein said re-imaging means forms an exit pupil.

33. (twice amended): An optical system, comprising:

- a. a modulated scanning beam of light for forming an intermediate image;
- b. a means for re-imaging said intermediate image so as to form a virtual image, wherein said means for re-imaging said intermediate image forms an exit pupil; and
- c. a light redistributing means positioned proximate to said intermediate image for expanding said exit pupil, wherein said light redistributing means comprises a light redistributing screen with a scanning modulated beam of light, wherein said light redistributing screen redistributes light from said beam of light of said intermediate image.

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66. (once amended) An optical system, comprising::

- a. a scanning modulated beam of light;
- b. a projection surface comprising a light redistributing means, wherein an intensity of said beam of light is modulated to form an intermediate image on said projection surface, wherein said light redistributing means comprises a light redistributing screen with a scanning modulated beam of light, wherein said light redistributing screen redistributes light from said beam of light of said intermediate image; and
- c. a re-imaging means, wherein said re-imaging means forms a virtual image of said intermediate image from light from said projection surface through an exit pupil viewable by an eye.

70. (once amended) An optical system, comprising:

- a. a scanning modulated beam of light;
- b. a projection surface comprising a light redistributing means, wherein an intensity of said beam of light is modulated to form an intermediate image on said projection surface, and said projection surface comprises a surface that absorbs light from said beam of light and emits light as an intermediate image; and
- c. a re-imaging means, wherein said re-imaging means forms a virtual image of said intermediate image from light from said projection surface through an exit pupil viewable by an eye.

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71. (once amended) An optical system, comprising:

- a. a scanning modulated beam of light, wherein said modulated beam of light comprises polychromatic light and said modulated beam of light is pre-aberrated so as to accommodate chromatic aberration by said re-imaging means;
- b. a projection surface comprising a light redistributing means, wherein an intensity of said beam of light is modulated to form an intermediate image on said projection surface;
and
- c. a re-imaging means, wherein said re-imaging means forms a virtual image of said intermediate image from light from said projection surface through an exit pupil viewable by an eye.

74. (once amended) An optical system, comprising:

- a. a scanning modulated beam of light;
- b. a projection surface comprising a light redistributing means, wherein an intensity of said beam of light is modulated to form an intermediate image on said projection surface;
- c. a re-imaging means, wherein said re-imaging means forms a virtual image of said intermediate image from light from said projection surface through an exit pupil viewable by an eye; and
- d. a beam splitter, wherein light from said scanning modulated image source reflects off of said beam splitter, then reflects off of said projection surface, then passes through said beam splitter, and then passes through said re-imaging means.

Please add claim 76-87 as follows:

- 76. An optical system as recited in claim 32, wherein said re-imaging means comprises a curved surface.
- 77. An optical system as recited in claim 33, wherein said re-imaging means comprises a curved surface.

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78. An optical system, comprising:

- a. a means for forming a first image, wherein said first image comprises at least one image color component, and said first image is pre-aberrated with a first lateral chromatic aberration; and
- b. a re-imaging means for forming a second image from said first image, wherein and said re-imaging means causes a second lateral chromatic aberration of said second image relative to said first image, and said second lateral chromatic aberration of said second image caused by said re-imaging means substantially cancels said first lateral chromatic aberration of said first image.

79. An optical system as recited in claim 78, wherein said re-imaging means forms a virtual image.

80. An optical system as recited in claim 78, wherein said re-imaging means comprises a lens.

81. An optical system as recited in claim 78, wherein said second image is formed at a substantial distance from said optical system.

82. An optical system as recited in claim 78, wherein said means for forming said first image comprises an electronic imaging device.

83. An optical system as recited in claim 82, wherein said first image comprises a plurality of color components, and each color component is formed so as to pre-aberrate said first image.

84. A method of generating an image, comprising:

- a. forming a first image, wherein said first image comprises at least one image color component, and said first image is pre-aberrated with a first lateral chromatic aberration; and
- b. forming a second image from said first image, wherein the operation of forming said second image causes a second lateral chromatic aberration of said second image relative to said first image, and said second lateral chromatic aberration of said second image substantially cancels said first lateral chromatic aberration of said first image.

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85. A method of generating an image as recited in claim 84, wherein said second image is a virtual image.
86. A method of generating an image as recited in claim 84, wherein said second image is formed at a substantial distance from said first image.
87. A method of generating an image as recited in claim 84, wherein said first image comprises a plurality of color components, and each color component is formed so as to pre-aberrate said first image.